

PCT

WORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶ : C07K 14/705, C12N 15/12, 15/63, 15/70, 15/79	A1	(11) International Publication Number: WO 99/48921 (43) International Publication Date: 30 September 1999 (30.09.99)
(21) International Application Number: PCT/US99/06573 (22) International Filing Date: 25 March 1999 (25.03.99) (30) Priority Data: 60/079,501 26 March 1998 (26.03.98) US (71) Applicants (for all designated States except US): THE BOARD OF TRUSTEES OF THE LELAND STANFORD JUNIOR UNIVERSITY [US/US]; Suite 350, 900 Welch Road, Palo Alto, CA 94304 (US). N.V. ORGANON [NL/NL]; Weth, Van Eschstraat 1, P.O. Box 20, NL-5340 BH Oss (NL). (72) Inventors; and (75) Inventors/Applicants (for US only): HSUEH, Aaron, J., W. [US/US]; 25 Ryan Court, Stanford, CA 94305 (US). HSU, Sheau, Yu [-/US]; Apartment 40, 234 Escuela Avenue, Mountain View, CA 94040 (US). LIANG, Shan-Guang [CN/US]; 438 Ventura Avenue #9, Palo Alto, CA 94306 (US). VAN DER SPEK, Petrus, Johannes [NL/NL]; Brem-laan 10, NL-5342 HM Oss (NL). (74) Agent: FIELD, Bret, E.; Bozicevic, Field & Francis LLP, Suite 200, 285 Hamilton Avenue, Palo Alto, CA 94301 (US).		(81) Designated States: JP, US, European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE). Published <i>With international search report. Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i>
(54) Title: NOVEL MAMMALIAN G-PROTEIN COUPLED RECEPTORS HAVING EXTRACELLULAR LEUCINE RICH REPEAT REGIONS (57) Abstract Isolated nucleotide compositions and sequences are provided for LGR4, LGR5 and LGR7 genes. The nucleic acid compositions find use in identifying homologous or related genes; in identifying endogenous ligands for these receptors; in producing compositions that modulate the expression or function of its encoded protein; for gene therapy; mapping functional regions of the protein; and in studying associated physiological pathways. In addition, modulation of the gene activity <i>in vivo</i> is used for prophylactic and therapeutic purposes.		

FOR THE PURPOSES OF INFORMATION ONLY

Codes used to identify States party to the PCT on the front pages of pamphlets publishing international applications under the PCT.

AL	Albania	ES	Spain	LS	Lesotho	SI	Slovenia
AM	Armenia	FI	Finland	LT	Lithuania	SK	Slovakia
AT	Austria	FR	France	LU	Luxembourg	SN	Senegal
AU	Australia	GA	Gabon	LV	Latvia	SZ	Swaziland
AZ	Azerbaijan	GB	United Kingdom	MC	Monaco	TD	Chad
BA	Bosnia and Herzegovina	GE	Georgia	MD	Republic of Moldova	TG	Togo
BB	Barbados	GH	Ghana	MG	Madagascar	TJ	Tajikistan
BE	Belgium	GN	Guinea	MK	The former Yugoslav Republic of Macedonia	TM	Turkmenistan
BF	Burkina Faso	GR	Greece			TR	Turkey
BG	Bulgaria	HU	Hungary	ML	Mali	TT	Trinidad and Tobago
BJ	Benin	IE	Ireland	MN	Mongolia	UA	Ukraine
BR	Brazil	IL	Israel	MR	Mauritania	UG	Uganda
BY	Belarus	IS	Iceland	MW	Malawi	US	United States of America
CA	Canada	IT	Italy	MX	Mexico	UZ	Uzbekistan
CF	Central African Republic	JP	Japan	NE	Niger	VN	Viet Nam
CG	Congo	KE	Kenya	NL	Netherlands	YU	Yugoslavia
CH	Switzerland	KG	Kyrgyzstan	NO	Norway	ZW	Zimbabwe
CI	Côte d'Ivoire	KP	Democratic People's Republic of Korea	NZ	New Zealand		
CM	Cameroon	KR	Republic of Korea	PL	Poland		
CN	China	KZ	Kazakstan	PT	Portugal		
CU	Cuba	LC	Saint Lucia	RO	Romania		
CZ	Czech Republic	LI	Liechtenstein	RU	Russian Federation		
DE	Germany	LK	Sri Lanka	SD	Sudan		
DK	Denmark	LR	Liberia	SE	Sweden		
EE	Estonia			SG	Singapore		